HIGH FREQUENCY PULSE GENERATOR FOR AN IMPLANTABLE NEUROSTIMULATOR

ABSTRACT

The invention is directed to a method and apparatus for electrically stimulating tissue. Many typical devices suffer from charge build-up on blocking capacitors when stimulating tissue at higher frequencies. The invention actively drives the discharge of the blocking capacitors, reducing the discharge time. As a result, stimulating pulses may be delivered at higher frequencies. Actively discharging the blocking capacitors may be accomplished with an asymmetric reverse pulse. This reverse pulse may be provided by a switching circuitry that reverses the polarity applied to the electrodes or couples a pulse from a second pulse generator to the electrodes.